Date Out: EFB:

DEC 2 1981

FILE COPY

To:

Product Manager

12 Ellenberger

TS-767

Fram:

Dr. Willa Garner

Chief, Review Section No. 1 Environmental Fate Branch

Attached please find the environmental fate review of:								
Reg./File No.: 464-448, 464-523	alan alan ang ing ang kanasan alan alan ang alan ang ang ang ang ang ang ang ang ang a	ing day yaka yaka ya ki ya kifa kalandi.						
Chemical: Chlorpyrifos		innykossiyayayahaysiyaiseyang ingile aayaanagenida						
Type Product: Insecticide	and the second section of the							
Product Name: Lorsban								
Company Name: Dow		alistonador o nativo de la companio de composito por la completação de la comp						
Submission Purpose: Add soybeans to label								
-								
	7							
ZBB Code: 3(c)(7)	ACTION CODE: 33	35						
Date in: 10/19/81	EFB # 16, 17							
Date Completed: DEC 2 1981	TAIS (level II)	Days						
Deferrals To:	63	1						
Ecological Effects Branch	,							
Residue Chemistry Branch								
Toxicology Branch		N						

1.0 Introduction

Chemical Name and Type Pesticide: chlorpyrifos, 0,0-diethyl 0- (3,5,6,-trichloro-2-pyridyl) phosphorothicate, 40.7% ai, Insecticide.

Trade Name: LORSBAN 4E, LORSBAN 15G

Chemical Structure:

The registrant requests the addition of soybeans to the LORSBAN 4E label. This formulation is currently registered for use on certain field, fruit, nut, and vegetable crops.

2.0 Directions for Use

See attached pages

3.0 Discussion of Data

No new environmental fate data submitted

4.0 Recommendation

EFB concurs with the proposed addition of soybeans to the LORSBAN 4E and 15G labels, since no significant incremental risk should be associated with this use.

Herbert L. Manning, Ph.D. Review Section #1

EFB/HED



LORSBAN* 15G

GRANULAR INSECTICIDE

For Control of Certain Insects Infesting Field Corn, Soybeans, Sugar Beets, and Sweet Potatoes

CAUTION:

ACTIVE INGREDIENT:

C	hlorpyrifos [0,	0-	di	et	hy.	1 (0 -	(3	, 5	, 6.	-ti	ric	ch.	Lo:	ro	-		
	2-pyridyl) phos	ph	or	ot	hi	oa	te] .	•	٠	•	•	•	٠		•	٠	15.0%
INER	T INGREDIENTS:		٠		•		•											85.0%

EPA Registration No. 464-523 EPA Est. 464-MI-1

In case of an emergency endangering life or property involving this product, call collect 517-636-4400

AGRICULTURAL CHEMICAL De Not Ship or Store with Food, Feeds, **Drugs or Clothing**

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Field Corn: To control larvae of northern and western corn rootworms apply LORSBAN 15G granular insecticide at planting time as a band (row) treatment at the rate of 6 to 8 ounces per 1,000 feet of row. Equivalent rates of LORSBAN 15G per acre for various row spacing are given in the accompanying table. Incorporate the granules into the top 1 inch of soil by placing in a 6 to 7 inch wide band over the row behind the planter shoe and ahead of the press wheels. Do not make more than one application per season.

Amount of LORSBAN 15G Per 1000				BAN 15G rious Ro		
Feet of Row	40"	38"	36"	34"	32"	30"
6 ounces	5.0	5.25	5.5	5.75	6.0	6.5
8 ounces	6.5	7.0	7.25	7.75	8.25	8.75

NOTE (Cutworm Control): Use of LORSBAN 15G at the rate of 8 ounces per 1000 feet of row also will control moderate to low infestations of cutworms. In cases of severe infestation, however, enough cutworms outside the treated band may survive to cause crop damage. If this situation occurs, it may be necessary to apply a rescue treatment to control the surviving worms. Consult your State Agricultural Experiment Station or Extension Service specialist for further information concerning insecticides registered for this purpose.

Soybeans: Use LORSBAN 15G to control larvae of the lesser, cornstalk borer by application at planting time or postemergence as a band (row) treatment at the rate of 8 ounces per 1,000 feet of row. Equivalent rates of LORSBAN 15G per acre for various row spacings are given in the accompanying table. When used at planting, incorporate the granules into the top 1 inch of soil by placing in a 6 to 7

LORSBAN 15G Proposed Labe _ng Revised October 14, 1980

inch wide band over the row behind the planter shoe and ahead of the press wheels. For postemergent treatment incorporate the granules in a 6 to 7 inch wide band to a depth of 1/2 inch to 1 inch using a suitable cultivator. Apply LORSBAN 15G with requipment that will provide uniform distribution of the granules. Do not make more than one application per season. Do not feed treated soybean forage or hay to meat or dairy animals.

Sugar Beets: Use LORSBAN 15G to control larvae of the sugarbeet root maggot by application as a row treatment at planting time or postemergence (up to the 2 to 4 true leaf stage of the plant). Apply the granules at the rate of 6.5 to 9 ounces per 1,000 feet of row (equivalent to 10 to 13.5 pounds per acre based on a 22 inch row spacing) by placing in a 5 to 7 inch wide band over the drill row (at planting) or plants (postemergence). When used at planting, the granules may be applied either ahead of the planter shoe and the seed drilled in the center of the band or behind the planter over the drill row. Incorporate the granules to a depth of 1 to 2 inches with either method. For postemergent treatment incorporate the banded granules to a depth of 1/2 inch to 1 inch using a suitable cultivator. Apply LORSBAN. 15G with equipment that will provide uniform distribution of the granules. Do not make more than one application per year.

Sweet Potatoes: Use LORSBAN 15G as an aid to reduction of feeding damage by larvae of Conoderus wireworms, Systema fless beetles and sweetpotato flea beetle by preplant, broadcast, application at the rate of 13.5 pounds per acre, using equipment that will evenly distribute the granules over the treated area. After application, incorporate the granules into the soil to a depth of 4 to 6 inches using a rotary hoe, disc cultivator, or other suitable incorporation equipment. Plant the crop in the usual manner as soon as possible after treatment. Do not make more than one application per season.

LORSBAN 4E Proposed Labeling Revised October 14, 1980



LORSBAN* 4E

For Control of Various Insects Infesting Certain Field, Fruit, Nut, and Vegetable Crops

Complete Directions for Use, Use Precautions and Restrictions,
Hazards and Other Important Information
For the Proper Use, Handling, Storage and Disposal of this Product

D479

* Trademark of THE DOW CHEMICAL COMPAN

EPA Rog. No. 444-448

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READ ENTIRE LABEL BEFORE USING THIS PRODUCT

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

In case of an emergency endangering life or property involving this product, call collect 517-636-4400.

ACTIVE INGREDIENTS:

Chiorpyrifos (O,O-diethyl O-(3,5,6-trichloro-2-pyridyl)
phosphorothloatel 40,7%
Aromatic petroleum derivative 30/vent 22,8%
INERT INGREDIENTS: 36,5%
Contains 4 pounds of chlorpyrifos per galion

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HAZARDS KEEP OUT OF REACH OF CHILDREN WARNING

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS

MAY BE FATAL IF SWALLOWED
MAY BE ABSORBED THROUGH
SKIN • MAY BE INJURIOUS
TO EYES AND SKIN

Do Not Take internally • Do Not Get in Eyes, on Skin or on Clothing Avoid Breathing Vapors and Spray Mist

Wash Thoroughly After handling in case of contact, immediately flush contaminated eyes with plenty of water and get prompt medical attention. Promptly wash contaminated skin with soap and plenty of water. Wash contaminated clothing before reuse.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Alternation of the children in an inhibitor.

Physical and Chemical hazards
COMBUSTIBLE
Do Not Use or Store Near Heat
or Open Flame • Do Not Cut or
Weld Container

Atropine only by injection is an antidote.

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In case of an emergency endangering life or property involving this product, call collect:

517-636-4400

AGRICULTURAL CHEMICAL
De Not Ship or Store with Food, Feeds,
Drugs or Clothing

Environmental

This product is highly toxic to bees exposed to direct treatment or residues on crops. Avoid use when bees are actively foraging. Protective information may be obtained from your Cooperative Agricultural Extension Service.

LORSBAN 4E insecticide is toxic to fish, birds and other wildlife. Fish and crustaceans may be killed if their waters are contaminated with this product. Keep out of lakes, streams, ponds, tidal marsnes and estuaries. Do not apply where runoff is likely to occur. Oo not apply when weather conditions favor drift from treated areas. Oo not contaminate water by cleaning of equipment or disposal of wastes. Use this product only as specified on this label.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

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SOYBEANS: Use LORSBAN 4E for control of the following pests at the dosages indicated:

Lesser cornstalk borer . . 4 pints
per acre
(at planting or postemergence in a
6 to 10 inch wide band followed by
light incorporation);

. . 2 pints
per acre
(at cracking in a 6 to 10 inch wide

band followed by a second spray 5 days after the initial treatment);
Cutworms, European corn borer,

corn earworm, southern green
stink bug. 2 pints
per acre

Bean leaf beetle 1 to 2 pints per acre

Mexican bean beetle,

armyworms. 1 to 1 1/2

pints

per acre

Velverbean caterpillar, green

cloverworm 1/2 to 1

pint

per acre

(as a broadcast, foliar spray using ground or aerial equipment when field counts indicate damaging insect populations are developing or present; re-treat as necessary to maintain control).

Mix the required dosage in enough water to ensure thorough coverage.

Restrictions: Do not apply more than 10 pints of LORSBAN 4E per agre or 5 pounds of chlorpyrifos (active ingredient) per agre per season. Do not apply within 28 days before harvest. Do not feed treated soybean forage or haw to meat or dairy animals.

Restrictions: Make only one application during the dormant season. Do not allow meet or dairy animals to graze in treated orchards.

SWEET POTATOES: Use LORSBAN 4E to control Conoderus wireworms, Systems flee beetles, and the sweet potato flee beetle by preplant application at the rate of 4 pints per acre as a broadcast (overall) spray to the soil surface followed by incorporation. Mix the specified dosage with enough water to obtain uniform coverage of the treated area and apply as a coarse spray using suitable ground spray equipment. After application, incorporate the insecticide into the soil to a depth of 4 to 6 inches using a rotary hoe, disc cultivator. or other suitable incorporation equipment. Plant the crop in the usual manner as soon as possible after treatment.

Restrictions: Do not make more than one application per season.

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STORAGE AND DISPOSAL?

Storage: Keep away from food, feedstuffs, and domestic water supplies. Handle con-, , , , centrate in a ventilated area. Keep container closed.

Disposal: Do not reuse empty container for any purpose. Promptly crush or perforate and bury with wastes in a location aways from water supplies. Follow official local pesticide container disposal regulations where applicable.

ATTENTION: Do Not Cut or Weld Container

NOTICE: Seller warrants that the product , conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any

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